# Six Sigma MEPRS Management Metrics (S2M3)

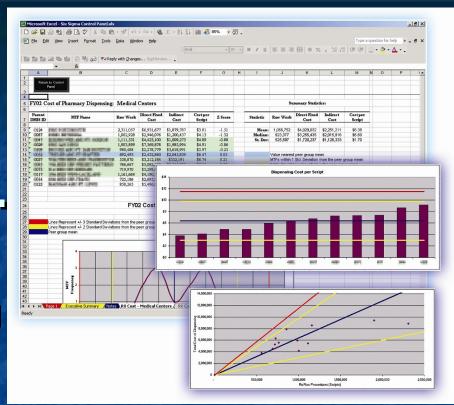
Jerry Baker Senior Analyst, SRA MEPRS Program Office

## Six Sigma Metrics

- Timely reporting and data quality improvements enable MEPRS-based management metrics and sophisticated applications
- Applying Six Sigma principles in the MHS can lead to conti
- As a benchmarking tool, Six Sigma metrics can be used to improvement

### Six Sigma Metrics (Cont.

- The Six Sigma MEPRS Management Metrics (S2M3) workbook is an interactive tool containing seven key MEPRSbased performance metrics:
  - Pharmacy Dispensing Costs
  - FTEs per occupied bed day
  - Ratio of support personnel to providers
  - Pharmacy workload per pharmacy FTE
  - Laboratory workload per lab FTE
  - Inpatient costs per RWP
  - Ambulatory costs per APG



- S2M3 is a blend of Direct Care and civilian industry benchmark metrics
- Implemented in early 2004
- Download: www.MEPRS.info

## Six Sigma MEPRS Management Metrics (S2M3)

Six Sigma MEPRS Management Metrics (S2M3)

### FY02 MEPRS

Data Current as of: 22 Oct 2003





Click on a peer group below to view a specific metric:

| Rx | Dispensing |
|----|------------|
|    | Coete      |

Medical Centers

Large Hospitals

Small Hospitals

Clinics

### Available FTE's per Daily Occupied Bed

Medical Centers

Large Hospitals

Small Hospitals

### Ratio of Support Personnel to Provider FTEs

Medical Centers

Large Hospitals

Small Hospitals

Clinics

### Rx Workload per Rx FTE

Medical Centers

Large Hospitals

Small Hospitals

Clinics

### Lab Workload per Lab FTE

Medical Centers

Large Hospitals

Small Hospitals

Clinics

### Inpatient Costs per RWP

Medical Centers Large Hospitals Small Hospitals

### Ambulatory Costs per APG

Medical Centers

Large Hospitals

Small Hospitals

Clinics

### **Executive Summary:**

Medical Centers Large Hospitals Small Hospitals Clinics

### Notes:

Six Sigma Description Definition of Metrics Data Sources Peer Group Definitions

### External MEPRS Resources:

MEPRS Web Portal
MEWACS
MEPRS Manual DoD 6010.13-M
Human System Interface (HSI)

### MTF-Peer Group Lookup:

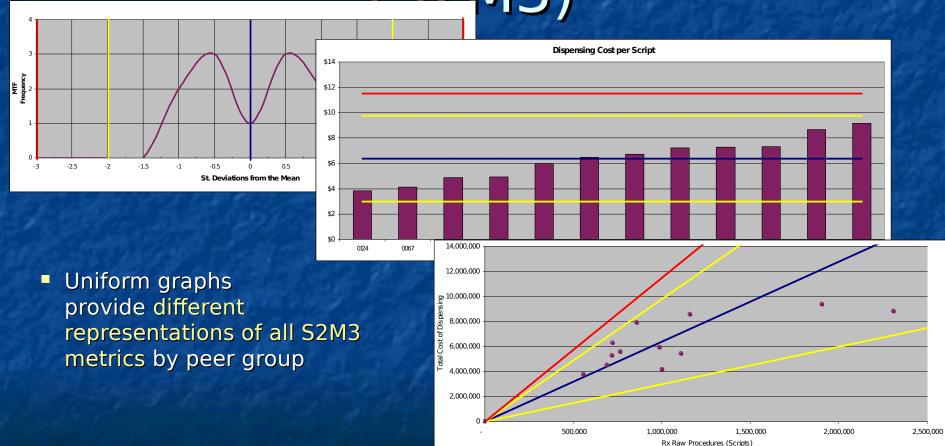
Air Force Army Naw

## Six Sigma MEPRS Management Metrics (S2M3)

Statistical distributions by peer group,
 highlighting 2 and 3 standard deviation outliers

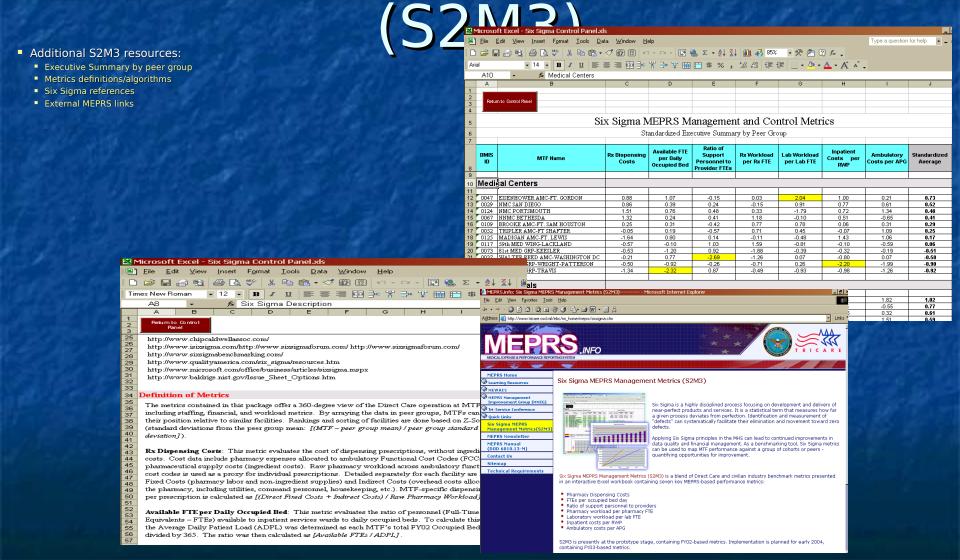
| Return to Control Pa | nel                             |               |         |          |         |           |                                         |               |                 |
|----------------------|---------------------------------|---------------|---------|----------|---------|-----------|-----------------------------------------|---------------|-----------------|
| FY02 COST PE         | RR RWP: Medical Centers         |               |         |          |         |           |                                         |               |                 |
| OTAL A EXPENSES      | ADJUSTED TO BIOMETRICS WORKLOAD |               |         |          |         |           | Summary Statistics:                     |               |                 |
| DMISID               | MTF NAME                        | тот а ехр     | TOT RWP | COST/RWP | Z Score | Statistic | Total A<br>Expenses                     | Total<br>RWPs | Cost per<br>RWP |
| 0125                 | MADIGAN AMC-FT, LEWIS           | \$69,615,229  | 12,194  | \$5,709  | -1.43   | Mean:     | \$87,035,657                            | 12,110        | \$7,409         |
| 0047                 | EISENHOWER AMC-FT, GORDON       | \$49,605,524  | 7,976   | \$6,219  | -1.45   | Median:   |                                         | 12,110        | \$7,409         |
| 0029                 | NMC SAN DIEGO                   | \$125,623,761 | 19,327  | \$6,500  | -0.77   | St. Dev:  |                                         | 5,429         | \$1,187         |
| 0124                 | NMC PORTSMOUTH                  | \$109,123,958 | 16,641  | \$6,557  | -0.72   | No Devi   | ψ50,001,224                             | 5,125         | Ψ1,107          |
| 0067                 | NNMC BETHESDA                   | \$71,573,076  | 10,513  | \$6,808  | -0.51   |           |                                         |               |                 |
| 0109                 | BROOKE AMC-FT. SAM HOUSTON      | \$107,355,998 | 14,620  | \$7,343  | -0.06   |           | Value nearest peer group mean           |               |                 |
| 0052                 | TRIPLER AMC-FT SHAFTER          | \$98,423,376  | 13,145  | \$7,487  | 0.07    |           | MTFs within 1 Std. Deviation from the p |               |                 |
| 0117                 | 59th MED WING-LACKLAND          | \$142,572,963 | 18,927  | \$7,533  | 0.10    |           | 2 Std. Deviations above/below the peer  |               |                 |
| 0073                 | 81st MED GRP-KEESLER            | \$48,206,249  | 6,190   | \$7,788  | 0.32    |           | 3 Std. Deviations above/below the peer  |               |                 |
| 0037                 | WALTER REED AMC-WASHINGTON DC   | \$141,337,096 | 16,899  | \$8,364  | 0.80    |           |                                         |               |                 |
| 0014                 | 60th MED GRP-TRAVIS             | \$47,786,184  | 5,575   | \$8,571  | 0.98    |           |                                         |               |                 |
| 0095                 | 74th MED GRP-WRIGHT-PATTERSON   | \$33,204,469  | 3,312   | \$10,026 | 2.20    |           |                                         |               |                 |

## Six Sigma MEPRS Management Metrics (S2M3)



### DEMONSTRATION

## Six Sigma MEPRS Management Metrics



### S2M3 Deployment

- Reception has been very positive:
  - Successful demonstration at DQMC meeting (December 2003)
  - The S2M3 has been incorporated into the WISDOM, MADI and DQ Course curriculums
  - S3M3 prototype was demonstrated at the 2004 TRICARE Conference
- As feedback is received, some metrics may be modified or added; e.g.,
  - RWP / Provider
  - RVU / Provider
  - Radiology Workload / Radiology FTE

## Q&A

Jerry Baker MEPRS Program Office. 703-681-3492 X4064 Gerald.Baker@tma.osd.mil